

UPS-FTA Series

UPS12-390FT 12V100Ah

Sacred Sun front terminal batteries have been designed specifically for applications which demand the highest levels of security and reliability. The monoblocs have excellent high power discharge, compact design and standard footprint for 23' cabinets. Thick Pb-Ca-Sn alloy grids are designed to resist corrosion and prolong service life.

Benefits

- Long life according to EUROBAT Classification
- High discharge performance
- High gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Easy installation and handling
- Centralized venting system

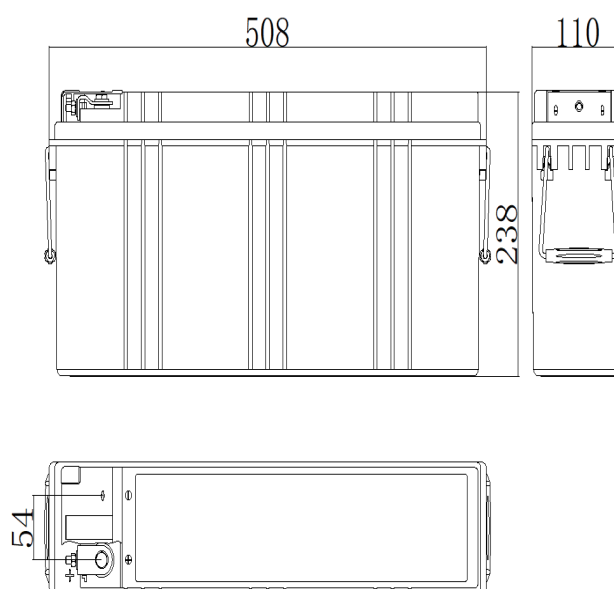
Applications

- Data center
- Power system
- UPS
- Emergency power
- Telecommunications

Standards

- IEC 60896-21/22
- BS 6290-4
- EUROBAT guide

Drawing



Specifications

Battery Model	UPS12-390FT			
Design Life (years, 25°C)	12			
Capacity (25°C)	10min (1.60V)	15min (1.67V)	1HR (63.0A, 1.75V)	10HR(10.0A, 1.80V)
	461W	390W	63.0Ah	100Ah
Dimensions (mm)	Length	Width	Height	Total Height
	508	110	238	238
Approx. Weight (kg)	33.9			
Reference Internal Resistance (mΩ)	3.9 ±15% (fully charged @ 25°C,testing device:HIOKIBT3562)			
Self-Discharge (25°C)	≤ 2% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	14.1(-3.5mV/°C/cell), max charge current: 20A		13.5 (-3.5mV/°C/cell)	
Short Circuit Current (A)	2400			

Discharge Data

Constant Power Discharge Data (25°C, W/cell)

End Voltage (V/cell)	min					h							
	10	15	20	30	45	1	1.5	2	3	4	5	6	10
1.60	461	398	327	228	164	132	91.9	73.3	56.8	47.2	40.0	34.3	22.8
1.65	443	394	315	221	159	127	89.8	71.8	55.1	46.2	39.2	33.4	22.3
1.67	433	390	306	217	155	125	87.8	70.1	54.5	45.2	38.5	33.0	21.8
1.70	421	384	296	214	152	122	85.9	68.7	53.8	44.2	38.0	32.7	21.3
1.75	397	368	292	208	145	118	84.0	67.3	52.5	42.8	37.5	32.0	20.8
1.80	372	340	275	203	142	114	81.8	65.5	50.7	42.3	36.5	31.3	20.4

Constant Current Discharge Data (25°C, A)

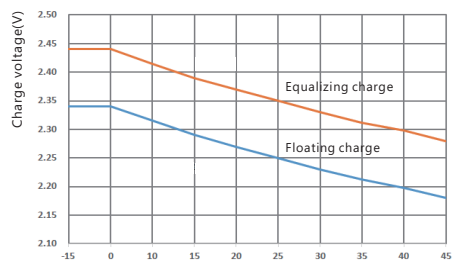
End Voltage (V/cell)	min					h							
	10	15	20	30	45	1	1.5	2	3	4	5	6	10
1.60	263	226	185	128	91.2	72.8	50.3	39.3	29.7	24.4	20.6	17.6	11.5
1.65	251	220	175	123	87.7	69.5	48.6	38.3	28.7	23.8	20.1	17.0	11.2
1.67	245	217	169	119	84.4	68.0	47.3	37.1	28.3	23.2	19.6	16.7	10.9
1.70	237	211	162	116	82.0	65.7	46.0	36.2	27.8	22.5	19.3	16.4	10.6
1.75	220	200	158	112	77.5	63.0	44.6	35.0	26.9	21.7	18.9	16.0	10.3
1.80	203	183	147	108	75.3	60.3	42.8	33.7	25.8	21.4	18.3	15.6	10.0

Performance Curve

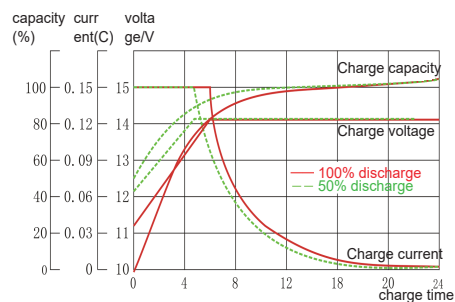
Voltage/V

Time

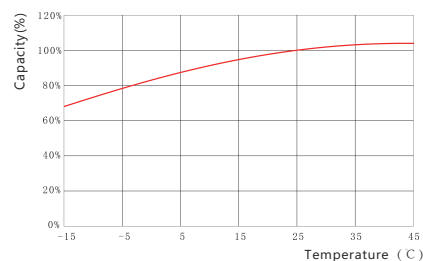
Discharge voltage vs. discharge time



Temperature vs. charge voltage



Charge performance



Capacity vs. temperature

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